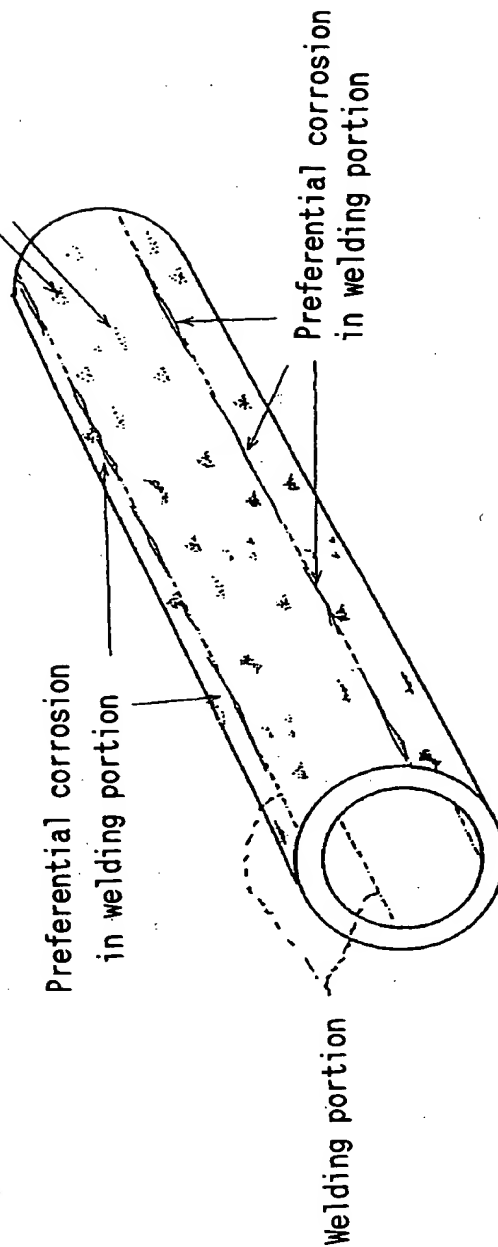


Fig. 1

Corrosion such as pitting corrosion, etc.
in non-welding portion



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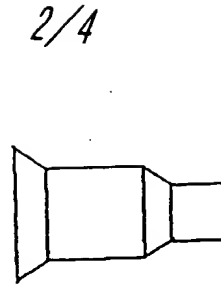
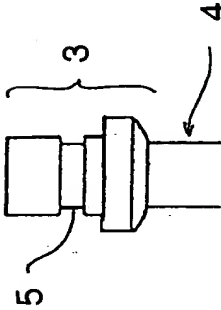
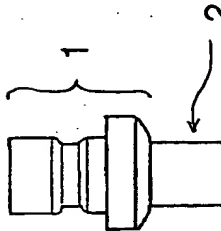
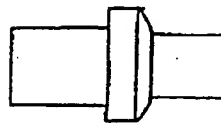
Fig. 2 (A) Fig. 2 (B) Fig. 2 (C) Fig. 2 (D)

Type A

Type B

Type C

Type D



Punch shaping

Punch shaping

Punch → forming
by rolling

Punch shaping

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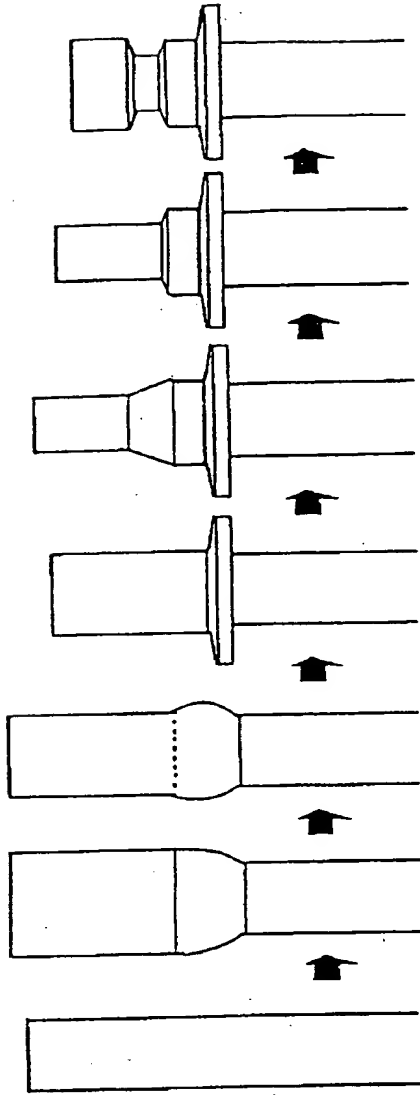


Fig. 3 (A)

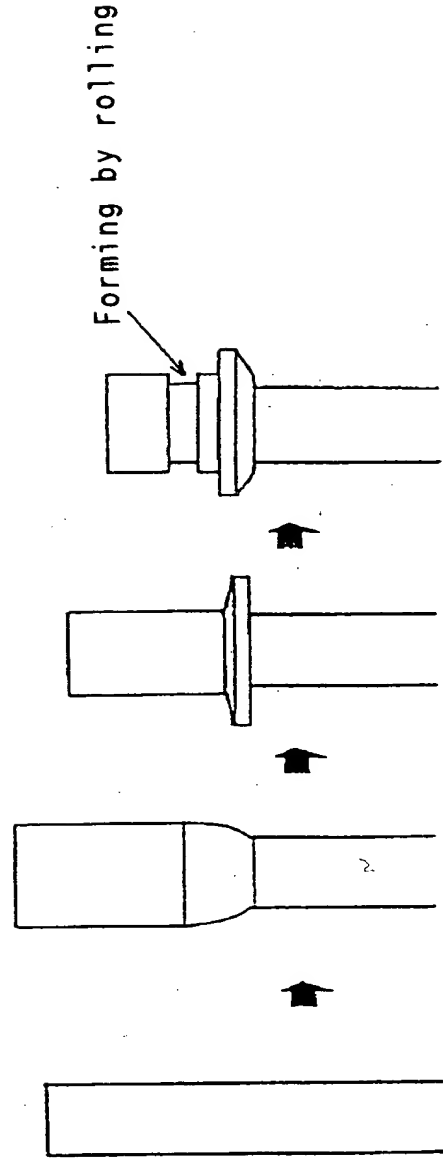
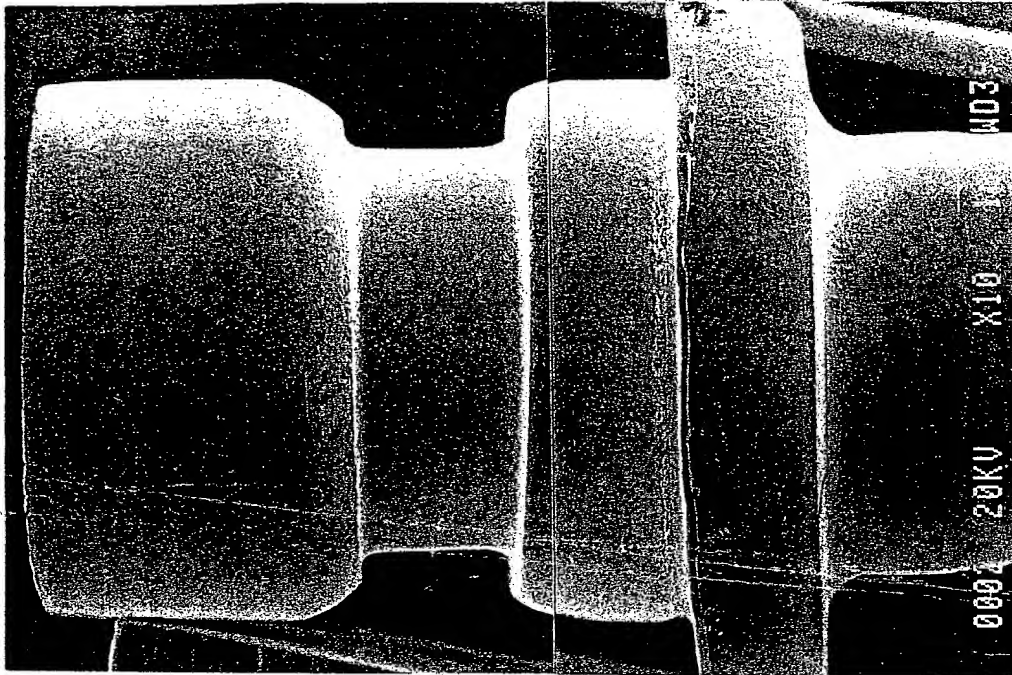


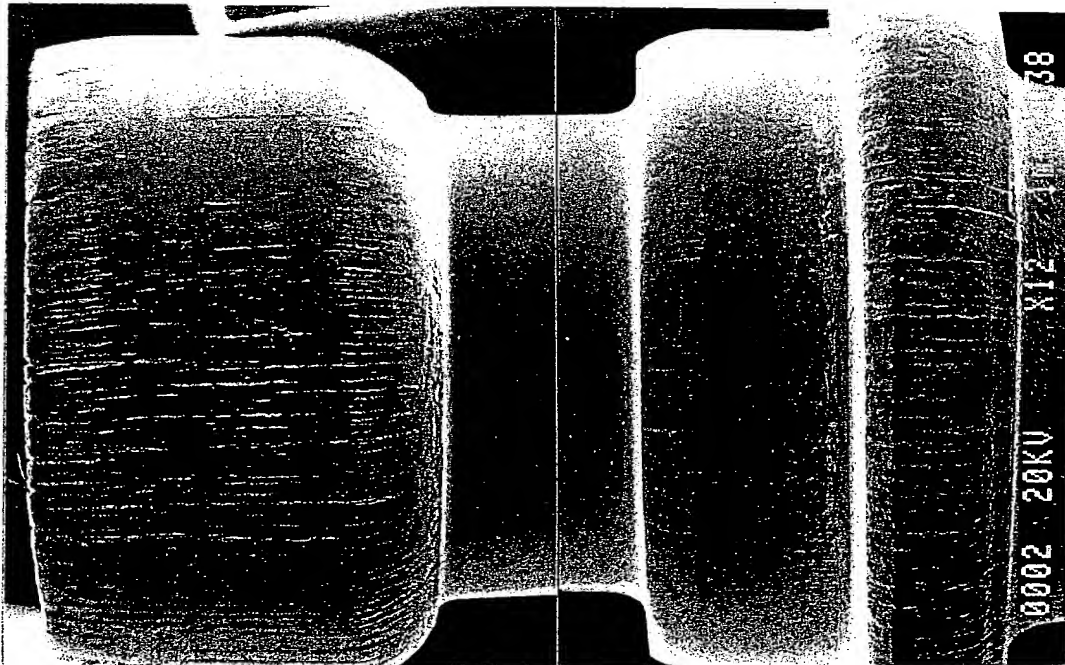
Fig. 3 (B)

Fig. 4 (B)



Pipe material of example of the present invention (portion with terminal end processing of type B)

Fig. 4 (A)



Current pipe material
(Prior Art)